

1600 E. Murdock Wichita, KS 67214

For Maintenance or Recalibration call:  
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CALIBRATION CERT #3040.01

## Torque Wrench Calibration Report For: TECO - Houston TX

Teco  
Johnny Runyan 713-791-6700  
1615 Braeswood Blvd  
Houston, TX 77030-3903

Calibration Date:	03 Dec 2013
Calibration Number:	131203.33A.2
Temperature:	74.50°F
Humidity:	67.00% RH

### Test Instrument Identification

Manufacturer:	SNAP-ON	Model:	QD1R200
Type:	Manual wrench	Serial Number:	1109000354
Wrench Type:	2	Wrench Class:	A

Standard Testing Points or Instrument Settings		Instrument "As Found" Readings [1] (IN-LB)						Instrument "As Left" Readings [2] (IN-LB)						Low Limit -4%	High Limit +4%
		1	2	3	4	5	AVG	1	2	3	4	5	AVG		
40	Reading	41.0	41.0	41.0	41.0	40.0	<b>40.8</b>	41.0	41.0	41.0	41.0	40.0	<b>40.8</b>	38.4	41.6
	Deviation %	2.50	2.50	2.50	2.50	0.00	<b>2.00</b>	2.50	2.50	2.50	2.50	0.00	<b>2.00</b>		
120	Reading	122.0	122.0	121.0	122.0	121.0	<b>121.6</b>	122.0	122.0	121.0	122.0	121.0	<b>121.6</b>	115.2	124.8
	Deviation %	1.66	1.66	0.83	1.66	0.83	<b>1.33</b>	1.66	1.66	0.83	1.66	0.83	<b>1.33</b>		
200	Reading	208.0	205.0	208.0	205.0	205.0	<b>206.2</b>	208.0	205.0	208.0	205.0	205.0	<b>206.2</b>	192.0	208.0
	Deviation %	4.00	2.50	4.00	2.50	2.50	<b>3.10</b>	4.00	2.50	4.00	2.50	2.50	<b>3.10</b>		

### Remarks

This manual wrench was tested in the absence of any side-loading.  
Readings were taken at 20%, 60%, and 100% settings of the tool's maximum torque scale (if applicable).

- (1) "As Found" Data: **IN TOLERANCE**  
Test Instrument was found within applicable tolerance levels.  
(2) "As Left" Data: **IN TOLERANCE, RESTRICTED WITH CHART**  
Test Instrument was left within applicable tolerance levels.

Technician Comments:

Robert Thomas, Calibration Technician

### Notes

- A. This accredited organization maintains both A2LA accreditation to ISO/IEC 17025 for the specific tests/calibrations listed in A2LA Certificate #3040.01, and ISO 6789.
- B. Environmental conditions were held within MobileCal's standards of 60 to 88 degrees Fahrenheit and below 90% relative humidity.
- C. All readings have an expanded uncertainty of .83% for up to 50 ft-lb, .20% for up to 500 ft-lb and .15% for up to 2,000 ft-lb (k=2).
- D. Procedures for this calibration method are outlined in the MobileCal Quality Management Procedure Manual Version 3.0.
- E. All standards and associated equipment used to calibrate this instrument have been calibrated and are traceable to A2LA accreditation and the National Institute of Standards and Technology (NIST).
- F. Customer acknowledges and agrees that MobileCal's standard sales terms and conditions are incorporated herein by reference and made a part of this calibration report.
- G. This document relates only to the test instrument listed on this certificate and cannot be reproduced, except in full, without written approval of MobileCal.
- H. Calibration performed and valid for Clockwise Direction only.
- I. This calibration document is followed by a Calibration Schedule page.



### Calibration Laboratory Location #3: Certification Schedule

COMPACITY	ITEM	S/N	MODEL	CAL DUE DATE
THERMOMETER	EXTECH	1110	445703	7/18/2014
Indicator	AKO	715	TSD-6000	8/13/2014
2,000 FTLB	AKO	715	TSD2011	8/13/2014
Indicator	AKI	3819	TSD-6500-3	8/13/2014
20,000 FTLB	AKO	390514297	TDS20011	8/13/2014
1000 FTLB	AKO	381914297	TSD1011	8/13/2014
10,000 PSI	DRUCK	3108832	DPI104	11/16/2013
3,000 PSI	DRUCK	3558245	DPI104	6/20/2014
300 PSI	DRUCK	2810965	DPI104	6/20/2014
250 FTLB	CDI	0608880091	2503-F-MT	8/13/2014
600 FTLB	CDI	0508880267	6004-F-MT	8/13/2014
1500 FTLB	CDI	1208580035	15005-F-MT	8/13/2014
36,000 PSI	Additel	211H12350054	Additel 681	6/20/2014